Type BRI2D
(1.2 ~ 47)µH

- # Low profile and high current
- # Low cost
- # Magnetically shielded
- # RoHS Compliant

TFC Part No.	Marking	Inductance L (µH)	Test Freq. (0.1V)	DCR max.(Typ.) (mΩ)	Saturation rated current (A) max.		Temperature rise current (A) max.
					20˚C	100˚C	
BRI2D12-1R2N	1R	1.2	100 KHz	117 (90)	0.85	0.70	1.05
BRI2D12-2R2N	2R	2.2	100 KHz	182 (140)	0.70	0.60	0.90
BRI2D12-3R3N	3R	3.3	100 KHz	260 (200)	0.60	0.50	0.82
BRI2D12-4R7N	4R	4.7	100 KHz	312 (240)	0.50	0.40	0.72
BRI2D12-5R6N	5R	5.6	100 KHz	442 (340)	0.46	0.35	0.67
BRI2D12-6R8N	6R	6.8	100 KHz	520 (400)	0.43	0.30	0.62
BRI2D12-8R2N	8R	8.2	100 KHz	560 (430)	0.38	0.28	0.58
BRI2D12-100M	10	10.0	100 KHz	780 (600)	0.33	0.25	0.55
BRI2D15-2R2N	2R	2.2	100 KHz	150 (115)	1.00	0.80	1.00
BRI2D15-3R3N	3R	3.3	100 KHz	234 (180)	0.90	0.70	0.90
BRI2D15-4R7N	4R	4.7	100 KHz	338 (260)	0.80	0.60	0.85
BRI2D15-5R6N	5R	5.6	100 KHz	364 (280)	0.70	0.55	0.80
BRI2D15-6R8N	6R	6.8	100 KHz	416 (320)	0.60	0.52	0.77
BRI2D15-8R2N	8R	8.2	100 KHz	572 (440)	0.55	0.48	0.72
BRI2D15-100M	10	10.0	100 KHz	624 (480)	0.50	0.45	0.70
BRI2D15-120M	12	12.0	100 KHz	702 (540)	0.45	0.40	0.65
BRI2D15-150M	15	15.0	100 KHz	949 (730)	0.40	0.35	0.50
BRI2D15-180M	18	18.0	100 KHz	1090 (840)	0.35	0.30	0.40
BRI2D15-220M	22	22.0	100 KHz	1250 (960)	0.30	0.25	0.30
BRI2D18-2R2N	2R	2.2	100 KHz	117 (90)	1.10	0.90	1.10
BRI2D18-3R3N	3R	3.3	100 KHz	143 (110)	1.00	0.80	1.00
BRI2D18-4R7N	4R	4.7	100 KHz	221 (170)	0.80	0.70	0.90
BRI2D18-5R6N	5R	5.6	100 KHz	247 (190)	0.75	0.60	0.85
BRI2D18-6R8N	6R	6.8	100 KHz	312 (240)	0.70	0.55	0.82
BRI2D18-8R2N	8R	8.2	100 KHz	351(270)	0.60	0.50	0.78
BRI2D18-100M	10	10.0	100 KHz	468 (360)	0.55	0.48	0.75
BRI2D18-120M	12	12.0	100 KHz	533 (410)	0.50	0.45	0.65
BRI2D18-150M	15	15.0	100 KHz	598 (460)	0.45	0.40	0.55
BRI2D18-180M	18	18.0	100 KHz	715 (550)	0.40	0.33	0.50
BRI2D18-220M	22	22.0	100 KHz	975 (750)	0.38	0.30	0.45
BRI2D18-270M	27	27.0	100 KHz	1105 (850)	0.33	0.25	0.40
BRI2D18-330M	33	33.0	100 KHz	1222 (940)	0.30	0.23	0.33
BRI2D18-390M	39	39.0	100 KHz	1625 (1250)	0.25	0.20	0.28
BRI2D18-470M	47	47.0	100 KHz	1820 (1400)	0.23	0.18	0.25

Telephone: +44 (0)1903 740000, Fax: +44 (0)1903 742208,
e-mail: sales@tfc.co.uk, url: www.tfc.co.uk

ISO9001: 2000 RS13124
ISO14001: 2004 EMS53965

BRI2D dimensions ((mm)

	A	B (max)	C	D	E	F	G	H	I	J
BRI2D12	3.0±0.2	1.2	1.0	2.0	0.5	0.5	3.2	1.2	1.1	1.8
BRI2D15	3.0±0.2	1.5	1.0	2.0	0.5	0.5	3.2	1.2	1.1	1.8
BRI2D18	3.0±0.2	1.8	1.0	2.0	0.5	0.5	3.2	1.2	1.1	1.8

Ordering information :

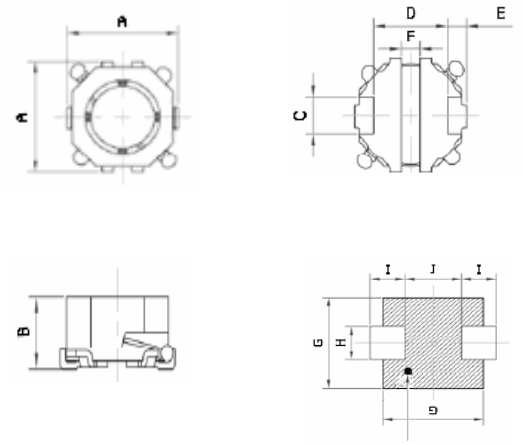
BRI2D12 - 100 M
(1) (2) (3)

(1) **Type: S**urface **M**ountable **T**ype.
Style: Copper **B**ase with DR core and **RI** core,
2D is 3.0mm square and **12** is about 1.2mm height

(2) **Inductance**: **100** for **10.0** uH

(3) **Inductance tolerance: N**: ± 30%; **M**: ± 20%

BRI2D drawing



Wire in a slash part is forbidden

Electrical specification

Inductance range	BRI2D12 1.2~10uH 0.85~0.33A BRI2D15 2.2~22uH 1.00~0.30A BRI2D18 2.2~47uH 1.10~0.23A
Saturation rated current	The current when the inductance becomes 30% lower than its initial value,(Ta=20℃)
Temperature rise current	The current when temperature of coil increases up to max. .ΔT=40˚C, (Ta=20˚C)
Operating temperature	-20 ℃ to 80 ℃
Test equipment and set up	L tested by Agilent 4284A Precision LCR meter DCR tested by Milli-ohm meter Electrical specifications at 25℃

Telephone: +44 (0)1903 740000, Fax: +44 (0)1903 742208,
e-mail: sales@tfc.co.uk, url: www.tfc.co.uk
ISO9001: 2000
RS13124
ISO14001: 2004
EMS53965